

## Abstract

System for analysing sample liquids by evaluating test elements with an analytical unit (20) in which a test element (10) to be analysed is positioned by a holder (21, 22, 120, 140) in an analytical position relative to the analytical unit and the system additionally comprises a position control unit to check whether an analytical area of the test element is correctly positioned relative to the analytical unit wherein the position control unit comprises a light source (30, 2) to irradiate an area of the test element and preferably the analytical area (11), a detector (31, 131) to detect light reflected from the area and an evaluation unit, and the light source and detector are positioned relative to one another in such a manner that the light intensity of specularly reflected radiation at the detector when the test element is correctly positioned is different from a light intensity when it is incorrectly positioned and the evaluation unit recognizes any faulty positioning on the basis of the light intensity at the detector.

In addition the invention concerns a method for sample analysis using a position control unit to check whether a test element is correctly positioned relative to an evaluation optics.